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**Surface mounted light-emitting diode array comprises a flexible circuit board which is mounted on a longitudinal narrow side of a cooling element**  
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**Patent Family**

Patent Number	Kind	Date	Application Number	Kind	Date	Week	Type
DE 20120770	U1	20020328	DE U20120770	U	20011221	200240	B

**Priority Applications (Number Kind Date): DE U20120770 U ( 20011221)**

**Patent Details**

Patent	Kind	Language	Page	Main IPC	Filing Notes
DE 20120770	U1		19	H01L-033/00	

**Abstract:**

DE 20120770 U1

**NOVELTY** The surface mounted light-emitting diode (LED) array (10) comprises a flexible circuit board (14) with LEDs which is mounted on a longitudinal narrow side (19a) of a cooling element (16).

**USE** For external lighting, in particular, brake and warning lights of motor vehicles.

**ADVANTAGE** Heat removal from the LED array is improved.

**DESCRIPTION OF DRAWING(S)** The drawing shows an example of the proposed LED array.

LEDs (12)

Flexible circuit board (14)

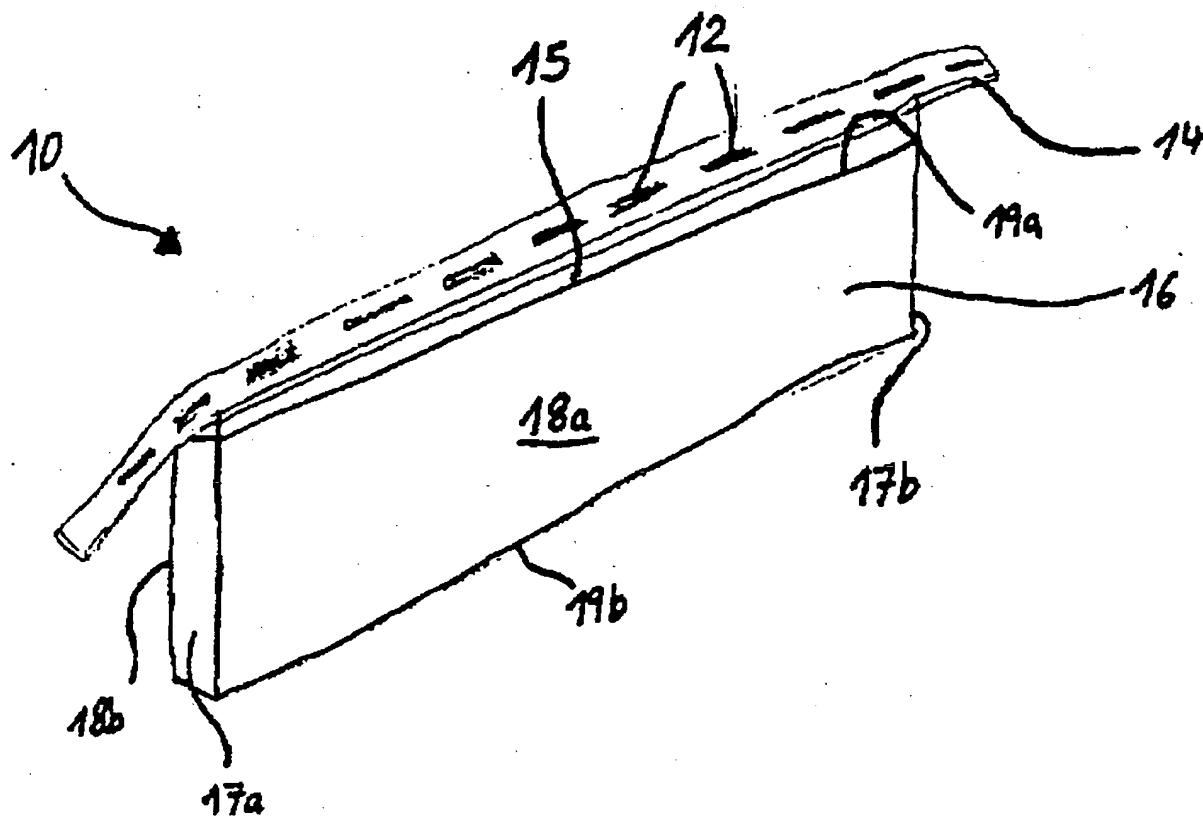
Intermediate layer (15)

Cooling element (16)

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**Technology Focus:**

**TECHNOLOGY FOCUS - POLYMERS** - The mounting arrangement of the LED array can include an intermediate layer of an electrically insulating epoxy resin with embedded particles of a material with good thermal conductivity. The materials for flexible circuit boards include polyester and polyimide foil.



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